

Grantee: Virginia

Grant: B-13-DS-51-0001

January 1, 2018 thru March 31, 2018 Performance Report



Grant Number:

B-13-DS-51-0001

Obligation Date:**Award Date:****Grantee Name:**

Virginia

Contract End Date:**Review by HUD:**

Reviewed and Approved

Grant Award Amount:

\$120,549,000.00

Grant Status:

Active

QPR Contact:

Traci Munyan

LOCCS Authorized Amount:

\$120,549,000.00

Estimated PI/RL Funds:

\$20,000.00

Total Budget:

\$120,569,000.00

Disasters:

Declaration Number

No Disasters Found

Narratives

Executive Summary:

The Commonwealth of Virginia has embraced the opportunity to apply to the US Housing and Urban Development's (HUD) National Disaster Resiliency Competition (NDRC). Virginia seeks to: (1) address unmet recovery needs in the most impacted and distressed areas of its Hampton Roads region, which suffered damage from the qualifying disaster, Hurricane Irene, in 2011, and (2) facilitate the longer-term resilience of the region in response to extreme weather events, recurrent flooding, and sea level rise. Innovation is found in Virginia's holistic regional resiliency approach that extends beyond infrastructure to encompass community and economic development. That is, the development of infrastructure and water management approaches will be informed by, and work in concert with, enhancing the health and wellbeing of citizens and stimulating economic growth. We will be building resilience in our population and leverage these changes as an economic accelerator. This innovative living with water approach, called "thRIVE: Resilience In Virginia," aligns with HUD's National Objective to directly benefit low- and moderate-income persons and households by focusing on unmet recovery needs, as well as build regional resilience capacity to manage extreme weather events and adapt to sea level rise.

Governor Terry McAuliffe has selected the Commonwealth's Department of Housing and Community Development (DHCD) to coordinate development of its NDRC application. DHCD encompasses a wide range of services and frequently collaborates across disciplines to serve vulnerable populations. The agency has partnered with state, regional and local government, academia, business and nonprofit entities to design an approach that will cultivate resilience. Under the leadership of DHCD, the Commonwealth, its qualifying localities and stakeholders have collaborated to create such an approach to resilience. Since Phase II of the NDRC competition, HUD has awarded the Commonwealth of Virginia \$120,549,000 to implement Norfolk's Ohio Creek Watershed project and a Business Incubator / Accelerator (called Costal Community Resilience, Inc. doing business as RISE) to support resiliency efforts and spur economic development for the entire region. In addition to NDRC HUD award, between Norfolk and the Commonwealth of Virginia \$69,232,862 in Direct Leverage and \$70,923,836 in Supporting Leverage has been committed to the region and the commonwealth's various resiliency efforts.

Rising sea level and increasing frequency and severity of storms and rain will necessitate the redesign of coastal communities to more effectively manage water. This redesign provides an opportunity for cities, like Norfolk to use water and water management system (to block, hold, channel, absorb, clean and release water) as catalysts to economic development and community revitalization. The Ohio Creek Watershed project selected for the NDRC funding involves a layered approach to dealing with the impact of flooding and sea level rise in a coastal area. The project will show how green and grey infrastructure, working together can create a community that can live with water in a future of rising tides.

RISE's mission is to accelerate global market activity by developing a regional "living laboratory" to test innovation, and to facilitate partnerships and collaboration in the resilience and coastal adaptation fields that I

Executive Summary:

eadto economic growth in the Hampton Roads region.

See Supplemental Document for DHCD's Fair Housing Policy Virginia's under the Administration Activity (01-NDR-ADMIN01).

MID-URN Areas:

The Ohio Creek Watershed project located in the city of Norfolk was selected for the NDRC funding. The area contains census tracts 46 and 47 which include two fully built-out neighborhoods of Grandy Village and Chesterfield Heights. The area is bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. The area contains a total population of



3,270 persons. Of this population, approximately 76% households are LMI.

In this area Norfolk will use the increasing exposure to significant flood and rising sea levels that necessitates physical change as an opportunity to remake the landscape to live and thrive with water. Both neighborhoods and surrounding areas experience regular flooding from river water washing over the coast line and heavy precipitation events. In this area, as in many others in the region, river water is pushed up the drainage system in storms, flooding low-lying areas and preventing rainfall from draining out of neighborhoods. Even during normal tide conditions in the river, these very old, undersized and submerged storm water pipes cannot convey run-off to the river in one of the increasingly frequent heavy rainfalls. The result is water ponding in streets, sidewalks and residents' basements on a monthly basis. In extreme high tides with heavy rains, streets in the area are impassable and houses flood. During Norfolk's multi-year community engagement process, "residents were clear" that the areas' additional unmet needs for resilience go beyond repair to water damage from Hurricane Irene to include their physical, economic, and social disconnection from the rest of the city. Residents further identified concentrated poverty, environmental degradation, risk to historic housing and lack of access to waterfront parks and other amenities among key challenges. To address the area challenges, the Ohio Creek project will implement distributed, replicable, and community-oriented approach to resiliency. It includes a system of innovative parcel- street- and neighborhood-level solutions such as green and grey infrastructure projects combined with the development of coastal living shoreline to address the area's current and future flooding issues. In addition, this integrated flood control system will make coastal residents active participants in water management, create green spaces to hold and absorb excess water while filtering it to remove pollutants, and create natural walking trails that reconnect the neighborhoods. The expanded green and open space needed to hold water will provide residents with recreational amenities, creating neighborhoods where people choose to live. Residents are working with City staff to ensure that the grant does more than just improve the infrastructure, but ensures connectivity, economic opportunity and amenities for all the residents of the neighborhood and the city. While the adjacent Newton's Creek Watershed project was not selected for the NDRC funding, the City and its partners are committed to implementing the plan proposed in the NDRC application over the long term. The adjacent Newton's Creek Watershed will also continue to be part of the overall NDRC program due to its hydrological interconnectivity with the NDRC-funded census track 47 located in the Ohio Creek project area.

MID-URN Areas:

RISE, the second project selected for the NDRC funding, will serve as a regional economic development center that supports technical and organizational to help businesses respond to sea level rise, recurrent flooding, and extreme weather events while ensuring access to and better management of water resources. RISE's vision is to position Hampton Roads as the global leader in addressing these threats by developing strategies, policies, and products that allow the region to continue to grow.

Key Agencies, Partners, Positions, Personnel:

THE COMMONWEALTH OF VIRGINIA. The Commonwealth of Virginia brings many years of proven experience successfully managing disaster recovery to its National Disaster Resilience Competition (NDRC) grant funding application. Virginia ranges from the Blue Ridge Mountains to the Chesapeake Bay, and this geographical diversity engenders a variety of natural disasters including hurricanes, tornadoes, severe winter storms, and geological hazards like landslides and earthquakes. Within the Hampton Roads region, a main consequence of weather disasters is flooding. Virginia must also be prepared for manmade threats, such as radiological and HazMat problems, and terrorist incidents, given its concentrations of military installations, and major port and rail operations.

The Virginia Department of Emergency Management (VDEM) is responsible for disaster management and building resiliency, including assessing vulnerabilities, mitigating hazards, planning and coordinating assets and resources, and emergency services. Critical skills for resilient disaster recovery include: the ability to assess vulnerability and define needs; to identify long-term resilient solutions; to conduct a Benefit-Cost Analysis; knowledge of construction and GIS; program and fiscal management experience; ability to interpret state/federal regulations; and communication skills for planning and outreach to citizens.

Historically, Virginia's mitigation programs have assisted communities by sponsoring individuals for projects like acquisition of flood-prone properties, elevations of homes, flood-proofing of businesses, and localized storm water management projects, and the state typically provides 20% of the 25% required non-federal match for mitigation projects. Per FEMA, on average, every dollar spent on mitigation returns four dollars, excluding community and business continuity, environmental benefits, or the homeowner benefit of lower flood insurance costs.

Virginia has awarded localities and Planning District Commissions over \$33,000,000 in total project costs through FEMA disaster and non-disaster grants since August 2012. Based on the FEMA measure, the value of direct mitigation for the last three years exceeds \$132,000,000. Addressing Climate Change and Sea Level Rise. In 2008, Governor Tim Kaine created the Virginia Commission on Climate Change to study climate change, increasing extreme weather events, and SLR. It found a decline or disappearance of key Chesapeake Bay species, increased damage from more frequent and severe storms, and the spread of vector-borne diseases like West Nile virus.

In July 2014, the current governor, Terry McAuliffe, convened the Governor's Climate Change and Resiliency Update Commission, which developed these recommendations: 1) Establish a Climate Change and Resilience Resource Center, 2) Create a Virginia Trust for Energy and Resilience, 3) Establish a renewable energy procurement target for Commonwealth agencies, 4) Adopt a zero emission vehicle program, and 5) Leverage federal funding to make coastal communities more resilient. Decision-making is also informed by the Secure Commonwealth Panel's Recurrent Flooding Subpanel, the Center for Coastal Resources Management at Virginia Institute of Marine Science (VIMS), the Coastal Policy Clinic at William & Marement Program, and the Floodplain Management Program.

Additional Actions. In 201

Key Agencies, Partners, Positions, Personnel:

appointed the Secretary of Public Safety and Homeland Security, Brian Moran, as the Commonwealth's first Chief Resiliency Officer and the single point of contact for resiliency issues. Secretary Moran's office subsequently began to revamp emergency planning and disaster relief in eastern Virginia, addressing deficiencies identified by the governor.

Innovation and Entrepreneurship. Virginia also recognizes the critical role of the economy in building resiliency. Virginia universities generated 1.94 startups per million residents in 2013, and Governor McAuliffe has made building a strong entrepreneurship support system a priority. Recently, the Governor announced the winners of the first-ever Virginia Velocity



Business Plan Competition, which provided \$850,000 to five bioscience and energy companies planning to expand their business in Virginia. DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT (DHCD). Governor McAuliffe has designated the Virginia Department of Housing and Community Development (DHCD) as the lead agency for Virginia's NDRC application. DHCD has significant experience with major projects and will also serve as grant administrator and project implementation manager upon award. As the primary point of contact for programmatic and contractual obligations, DHCD will be responsible for grant oversight, fiscal and budgetary controls, and inter-community coordination.

DHCD partners with Virginia communities to develop their economic potential, regulates the state's building and fire codes, provides training and certification for building officials, and invests more than \$100M each year into housing and community development projects throughout the state – and most are designed to support low-to-moderate income citizens. The department also runs a number of programs aimed at preventing homelessness and advancing homeownership, and provides a range of multi-purpose community development grants for a variety of community needs

Past Experience of the Applicant. DHCD is committed to creating safe, affordable, and prosperous communities in which to live, work and do business in Virginia. The agency strategically invests financial and technical resources into affordable housing and development projects to attract private sector development and further investment. By promoting regional economic collaborations in economically distressed areas, DHCD stimulates job creation, builds community capacity, and empowers residents. DHCD also supports small business and entrepreneurs, incorporating community assets into revitalization strategies to restructure economies and create vibrant and competitive communities.

The agency serves many of Virginia's most vulnerable individuals, including the homeless and special needs populations, and collaborates with partners to offer more creative community-based housing response systems and to provide integrated community housing options for persons with intellectual, developmental, and physical disabilities.

General Administrative Capacity: DHCD has extensive experience managing federal resources, including HUD-funded programs to such as the HOME, the State Community Development Block Grant Program (CDBG), Neighborhood Stabilization, Emergency Solutions, Housing Opportunities for Persons with AIDS, and when appropriated, Disaster Recovery Program, logwtohrf

Key Agencies, Partners, Positions, Personnel:

derally funded programs including Weatherization Assistance, Low-Income Home Energy Assistance Program, and the Rural Community Development Initiative. DHCD staff are well-equipped to navigate federal crosscutting and housing-related requirements, including the Environmental Review Process, Section 3, Labor Standards, Lead, the Uniform Allocation Act, and Fair Housing. Staff have significant experience working in both the Integrated Disbursement and Information System, and the Disaster Recovery Grant Reporting System, and are cross-trained to provide back-up coverage as needed. DHCD staff are currently working with the Council of State Community Development Agencies and HUD on the development of an Affirmatively Furthering Fair Housing assessment tool for use by states.

The HUD Neighborhood Stabilization Program (NSP) is a high profile program developed to help communities stabilize neighborhoods impacted by foreclosure and abandonment that illustrates DHCD's ability to effectively carry out a highly leveraged, time-sensitive priority program. The Virginia NSP successfully acquired, rehabilitated, and resold over 300 homes, generating close to \$50M in program income that is reinvested to sustain program operation. DHCD provided resources and coordinated the efforts of 25 local governments and nonprofits that assist homeowners facing foreclosure.

Another program, the Virginia Enterprise Zone, a state and local government partnership, incentivizes job creation and private investment in designated Virginia Enterprise Zones. In 2014, it attracted \$245.6M in new private investments in distressed communities, a 21 % increase over 2013.

Cross Disciplinary Capacity. DHCD is responsible for managing state CDBG funds, federal and state housing programs, disaster recovery assignments, and other major federal and state programs; all require cross-disciplinary work. Agency projects depend on effective coordination of multiple public and private sector functions, teams, and disciplines, including planning, design, engineering, environmental, and socio-economic approaches. DHCD also oversees many of Virginia's storm disaster management, public works, environmental quality, building and fire code regulation, and economic revitalization projects.

DHCD's approach to the innovative Building Collaborative Communities program coordinates the resources of multiple state agencies, private sector partners, educational institutions, community groups, and individuals. These partners focus on strategic economic development outcomes, such as job creation, economic development, and increasing community capacity and leadership in economically distressed areas. Experience with Collaboration and Coordination for Large Projects. DHCD's approach to project management involves the use of a project management team that includes area residents. DHCD is an active member of the team and facilitates development of the project work plan and contract.

An example of a large-scale community revitalization development strategy and systems change is DHCD's leadership in transforming delivery of homeless services from a strictly shelter-based system to a collaborative community-based system that is responsive to emergency needs.

Key Agencies, Partners, Positions, Personnel:

ng. As a result, Virginia's overall homelessness decreased by 23% from 2010 to 2015 as did family homelessness. Veteran homelessness decreased by 31% from 2012 to 2015. This successful transformation of its homeless services system is a national model: community based solutions and rapid re-housing have functionally ended veteran homelessness in Virginia.

Technical Capacity. DHCD encompasses a wide range of programs and services, and its technical capacity is unusually broad. In addition to the community-based programs previously described, DHCD understands the need of vulnerable populations. For example, the HOME Affordable and Special Needs Housing program preserves housing for low-income persons; LMI renters and homeowners are assisted through the Down Payment Assistance, Savers, and Emergency Home and Accessibility Repair programs; and business start-up and revitalization is supported via the Community Business Launch, CDBG, and Industrialized Revitalization Fund programs. DHCD also has oversight of the Virginia Uniform Statewide Building Code and the Virginia Statewide Fire Prevention Code, and promotes incentives available for Green-Building and Energy Efficiency. Virginia is recognized by the Insurance Institute for Business & Home Safety as having the top-rated building codes among hurricane prone states.

DHCD's program experience has made the agency nimble. When DHCD Weatherization Assistance Program funding increased



almost overnight from roughly \$10M to \$100M, DHCD quickly ramped up its delivery system, adding staff and increasing local provider capacity. While developing a more robust training center, the agency established new partnerships with the community college system to quickly prepare the necessary workforce. Innovations such as a new centralized and coordinated system facilitated application intake and review, project and budget management, invoicing and reporting, transparency and efficiency. DHCD will draw on this flexibility in administering NRDC grant funding.

Capacity for Community Engagement and Inclusiveness. Through its administration of HUD and other social service programs, DHCD regularly works with vulnerable and special needs populations. Most DHCD-administered programs require public participation, and the agency holds public meetings that encourage citizens to participate in the process. Community-based meetings are widely publicized through local advertisements, flyers, outreach through faith-based organizations, and public notices.

VDHCD Management Team and Key Staff. The following individuals are key management positions responsible for the day-to-day operations, implementation, and monitoring of the CDBG-NDR projects. DHCD's relevant management structure includes:

Bill Shelton, Director of the Virginia DHCD
Pam Kestner, Deputy Director of Housing
Willie Fobbs, Associate Director of Housing
Traci Munyan, Resiliency Program Manager
Lee Hutchinson, Resiliency Program Analyst

THE HAMPTON ROADS REGION. The Commonwealth of Virginia will pilot strategies to build resilience in the Hampton Roads Region of southeastern Virginia, where its citizens face recurrent flooding and the second fastest rate of SLR on the East Coast. This vitally important area takes its name from the large sheltered harbor, "Hampton Road" (formerly Radsead, where the tidal river, the York, comes

Key Agencies, Partners, Positions, Personnel:

Nansemond, Elizabeth, and Lafayette, converge at the mouth of the Chesapeake Bay. The rivers extend watery fingers into the seven cities that surround the harbor: Newport News, Hampton, Portsmouth, Norfolk, Suffolk, Chesapeake, and Virginia Beach. This strategic location makes the region economically critical to the Commonwealth: it is home to both Naval Station Norfolk, the largest naval base in the world, and the Port of Virginia, the largest ship building and repair complex in US. Hampton Roads is a nexus of trade for the eastern third of the US and a security center for the world. While Virginia may not partner with federal entities for the NDRC, the military is nonetheless an informal partner, and resilience efforts are well coordinated at state, regional and local levels with military commands in Hampton Roads.

Hampton Roads Planning District Commission (HRPDC). As the regional planning agency for 17 local government members, HRPDC has regularly convened localities to discuss coastal flooding and SLR adaptation since 2008. In March 2014, HRPDC created a Special Regional Committee on Recurrent Flooding and Sea Level Rise to foster resilience on a regional scale. Committee members represent Hampton Roads localities, universities, the Army Corps of Engineers, and numerous environmental organizations. In December 2014, the regional group approved a proposed resolution to encourage localities to adopt new freeboard requirements. Currently, HRPDC is developing Hampton Roads' first regional strategic plan, Envision Hampton Roads, based on extensive community input. The HRPDC is well-positioned to coordinate and support public participation in a regional resilience dialogue.

Regional collaboration has been further advanced by the June 2015 "Virginia Dutch Dialogues" workshop, modeled on a workshop held in post-Hurricane Katrina New Orleans. Sponsored by the Dutch Embassy and supported by a four-month regional preparation process, the cross-disciplinary workshop was an intensive, multi-day event with over 60 regional stakeholders, including Norfolk, Hampton, Newport News, HRPDC, regional universities, and community organizations.

CITY OF NORFOLK. Partner's Past Experience. Norfolk is the second largest city in Virginia and has been a key part of America's history, commerce, and innovation, most recently as a national leader in the field of resilience. In 2008, Norfolk city administrators began to analyze its re-current flooding and SLR issues, and completed a citywide assessment to help prioritize problem areas, identify potential flooding scenarios, and define objectives for various remediation flood defense improvements. The next year, a severe Nor'easter confirmed that flood defense and mitigation is a critical issue for Norfolk. Flooding was formally acknowledged as a main priority in 2011 with the establishment of Team Norfolk, which drew members from across all sectors: public, private, nonprofit, higher education and military. Over the next two years, Team Norfolk produced the first effort at a comprehensive, community-wide approach to preparedness and resilience. The group meets monthly, continuing its cross sector resilience collaboration.

Norfolk has actively sought funding to increase resilience and successfully applied to the first round of the Rockefeller Foundations 100 Resilient Cities (100RC) Initiative in 2013. The two-year 100RC grant provides

Key Agencies, Partners, Positions, Personnel:

a wealth of resources, including funding for Norfolk's first (and world's third) Chief Resilience Officer (CRO), access to renowned international experts, and membership in a cohort of global cities with similar challenges. Norfolk's 100RC efforts focused on analyzing the city's three major challenges: SLR and recurrent flooding; a shifting economy, and a need to build strong, healthy neighborhoods. The CRO and her team conducted extensive research and consultations, engaging stakeholders to understand the city's needs, challenges and opportunities. The project culminated in October 2015, with the launch of Norfolk's Resilience Strategy, which will guide the city in its shift to a successful coastal community of the future.

Norfolk also partnered with Sandia National Laboratories to assess the potential economic impact of a severe storm on the region's key assets and on the resultant economic impact on the nation. This far reaching research has helped to inform planning for SLR in Norfolk and the Hampton Roads region. Funding for Virginia's proposed NDRC projects will support Norfolk in pursuing its new Resilience Strategy, as well as collaboration with neighboring cities to improve resilience at the regional level.

Cross Disciplinary Capacity. Norfolk routinely coordinates implementation of its wetland and shoreline restoration projects, as well as hard infrastructure projects, with federal, regional and local partners such as the US Army Corps of Engineers (USACE) and the Elizabeth River Project. The city also has extensive experience with successful neighborhood revitalization and affordable housing through its long partnership with the Norfolk Redevelopment and Housing Authority (NHRA).

Technical Capacity. Norfolk has a long record of successfully implementing a variety of projects similar in scale, scope and complexity to those the Commonwealth proposes. The city's Department of Public Works, in close collaboration with Norfolk's Resilience Office, will primarily be responsible for NDRC project management. In the past three years, Public Works has managed



\$267M in infrastructure projects, including construction of the Court House and the flagship Slover Library. Since Hurricane Irene, the city's storm water department completed 27 storm water-related Capital Improvement Projects (CIP) and city-wide flood vulnerability assessments valued at over \$17M. Norfolk invested \$3.5M to raise a tidal flood-prone arterial road to the Midtown Tunnel and ensure the Sentara Norfolk Hospital complex, the area's only level-one trauma center, is accessible during flooding. The city further improved resiliency by tripling its wetland areas from 60,846 ft² in 2011, to 217,070 ft² in 2014. Since September 2014, the city has also undertaken several major living shoreline restoration projects valued at over \$9.3M, with pathway elevations that are a recreational amenity. Capacity for Community Engagement and Inclusiveness. The City of Norfolk ensures input from residents, especially low income and other vulnerable residents, through extensive outreach via full-time Neighborhood Specialists who are assigned to city neighborhoods. Recent examples of extensive stakeholder engagement include a 100RC resilience assessment, new bikeway masterplan, ongoing code revision, and the design of new public schools in the Heisterfield Heights neighborhood.

Key Agencies, Partners, Positions, Personnel:

It is building on a community-led design initiative by regional partners Wetlands Watch, Hampton University, and Old Dominion University as the foundation for the proposed new water management design.

Management Team and Key Staff. Management positions and staff responsible for day-to-day operations, implementation, and monitoring CDBG-NDR projects include:

City of Norfolk Staff:

Christine Morris, Chief Resilience Officer, will be responsible for the overall program management. She has over 25 years' experience in community development and revitalization. The CRO's Office will be an integral part of the project management team.

Katerina Oskarsson, Ph.D., Deputy Resilience Officer, will assist CRO with the overall program management.

David Ricks, P.E., Director of Public Works, will oversee project management. He has over 34 years in both program and construction management, infrastructure planning, and financial administration.

Scott Smith, PE, LS, Coastal Resilience Manager, will be responsible for project management. He has over 28 years of extensive experience in storm water management, infrastructure design, and construction.

Karen Colombo, Manager of Budget & Accounting, Public Works Department, will manage financial aspects of the grant administration.

Shenette Felton, Assistant Director, Finance Department, will manage financial aspects of the grant administration.

Key Consultant Staff:

Amy Courville, Project Manager, CB&I, and her team will assist the City with the overall project management, including communications and project team coordination, administration of project management software, schedule development, timesheet and budget tracking.

Phillip Kash, Project Manager, HR&A Advisors, and its main sub-contractor GCR will assist the City with CDBG-DR/NDR regulatory compliance, CDBG administration, development of organization framework, financing strategies, and project design.

Kyle Graham, Project Manager, Arcadis and its main sub-contractor Waggonner & Ball represented by David Waggonner, Design Director, will be responsible for design and engineering services.

Chris Frye, Project Manager, VHB, will assist the City with environmental review services.

RISE

Partner's Pat Experience. RISE is a no-profit organization establishing a series of strategic initiatives in the resilience field. RISE's vision is to position Hampton Roads as the global leader in addressing the impacts of sea level rise, recurrent flooding, and extreme weather events by developing strategies, policies, and products that allow the region to continue to grow. RISE was incorporated in June 2016, and filed for 501(c) 3 Status in January 2017.

RISE's mission is to accelerate global market activity by developing a regional "living laboratory" to test innovation, and to facilitate partnerships and collaboration in the resilience and coastal adaptation fields that lead to economic growth in the Hampton Roads region.

The region is galvanizing to address these impacts. Significant work by regional academic, public, and private sector actors to find solutions to evolving conditions is underway. The region already is making significant investments to mitigate the impacts of sea level rise. Inv

Key Agencies, Partners, Positions, Personnel:

estors in these efforts include residents, businesses, municipalities, state and federal agencies, and non-profit organizations. RISE will work regionally with these entities to foster collaboration and partnerships in the fields of resilience and coastal adaptation.

Cross Disciplinary Capacity RISE's mission is cross-disciplinary, combining abilities in technical, financial, planning, and community awareness. The Executive Director has demonstrated abilities in those areas and will add staff to augment, grow, and diversify these capabilities.

Technical Capacity RISE's Executive Director has a track record of planning and executing complex technical programs. Specialized knowledge in water management and resilience areas may be required and will be acquired through consultant or other arrangements.

Capacity for Community Engagement and Inclusiveness Although a new organization, RISE has begun the process of community outreach. The Executive Director has briefed community groups, business groups, and the City Managers of all the regions in Hampton Roads. The RISE Board draws from local business leaders, philanthropists, and thought leaders.

Management Team and Key Staff/Board Members:

Paul Robinson, Executive Director of RISE, has over 25 years in engineering and product commercialization.

Paul Hirschbiel, Board Member, is a local business leader and investor.

Anne Conner, Board Member, President at Towne Bank.

Evans McMillion, Board Member, attorney.

Drew Ungvarsky, Board Member, CEO & Executive Creative Director at GROW.



Overall	This Report Period	To Date
Total Projected Budget from All Sources	N/A	\$260,445,504.00
Total Budget	\$0.00	\$120,569,000.00
Total Obligated	\$0.00	\$28,320,326.32
Total Funds Drawdown	\$2,365,356.55	\$4,943,107.70
Program Funds Drawdown	\$2,365,356.55	\$4,943,107.70
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$4,321,390.43	\$4,943,107.70
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Progress Toward Required Numeric Targets

Requirement	Target	Actual
Overall Benefit Percentage (Projected)		94.88%
Overall Benefit Percentage (Actual)		0.00%
Minimum Non-Federal Match	\$0.00	\$0.00
Limit on Public Services	\$18,082,350.00	\$0.00
Limit on Admin/Planning	\$24,109,800.00	\$4,881,368.12
Limit on Admin	\$0.00	\$512,678.39
Most Impacted and Distressed Threshold (Projected)	\$0.00	\$0.00

Overall Progress Narrative:

Planning and Engineering are still being conducted on the final areas of the Ohio Creek Watershed Project. Public outreach continues to be on the forefront of Norfolk's pursuit towards achieving a successful plan resulting in almost 60 different outreach functions. As a result of this persistent public outreach, the proposed plans have demonstrated that they are very comprehensive, inclusive, and functional for the community and implementation. Norfolk has completed a CDBG-NDR Administrative Manual and has begun rollout training. They have also procured and hired a Construction Manager at Risk.

Environmental review and planning process continues with many meetings between stakeholders of the process to ensure timely permitting and approval processes.

RISE has begun pursuing activity objectives. RISE has collaborated with MIT's Solve to help access the world leaders and masterminds in the Resiliency Realm. These efforts and partnerships will assist Hampton Roads in being a global leader in answering some of the world's toughest resiliency issues. This is only the beginning glimpses of the exciting and innovative work that RISE continues to demonstrate. RISE is also continuing in efforts to conduct procurement workshops with Citymart, Norfolk, Boston, and 100 Resilient City's. These workshops will help these localities when trying to figure out how to best tackle their resilience challenges.

T/TA / and communications continues to take place between the Commonwealth of Virginia in conjunction with the City of Norfolk, RISE, and Procured Consultants. These have ensured all projects continue to appear on tract and to be completed by grant closeout deadline.

Project Summary

Project #, Project Title	This Report Period	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
01-NDR, Administration	\$192,838.26	\$6,027,450.00	\$512,678.39
02-NDR, Ohio Creek Watershed Project	\$2,110,778.71	\$109,521,550.00	\$4,368,689.73
03-NDR, Coastal Resilience Laboratory & Accelerator Center	\$61,739.58	\$5,000,000.00	\$61,739.58
04-LTC, Long-Term Commitments	\$0.00	\$0.00	\$0.00
05-SL, Supporting Leverage	\$0.00	\$0.00	\$0.00
06-OV, Outcome Values	\$0.00	\$0.00	\$0.00
07-NDR-PI Account, Coastal Resilience Laboratory &	\$0.00	\$20,000.00	\$0.00



Activities

Project # / Title: 01-NDR / Administration

Grantee Activity Number: 01-NDR-Admin01
Activity Title: NDR-Administration-Virginia

Activity Category:

Administration

Project Number:

01-NDR

Projected Start Date:

01/17/2017

Benefit Type:

()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Administration

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Commonwealth of Virginia

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$2,639,813.81
Total Budget	\$0.00	\$2,639,813.81
Total Obligated	\$0.00	\$2,639,813.81
Total Funds Drawdown	\$43,746.73	\$199,264.31
Program Funds Drawdown	\$43,746.73	\$199,264.31
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$43,746.73	\$199,264.31
Commonwealth of Virginia	\$43,746.73	\$199,264.31
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

On going administrative and grant management activities. Technical assistance, monitoring and financial management oversight.

Due to space constraints, Virginia's Actions to Affirmatively Further Fair Housing as been added here as a supporting document here rather than under the Executive Summary.

Location Description:

State Offices, primarily located at 600 East Main Street, Richmond, Virginia 23219

Activity Progress Narrative:

To support Salary, Fringe Benefits, and other cost needed to administer the grant at the State Level. As directed per HUD the Grantee Projections of Expenditures and Outcomes has been attached in this Admin



Section. This will be updated as cost become more clear after the design and engineering (planning phases) have been completed.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Commonwealth of Virginia	\$200,000.00
Old Dominion University	\$50,000.00
Total Other Funding Sources	\$0.00

Activity Supporting Documents

Document COMBINED CDBG-DR-Grantee-Projections-of-Expenditures-and-Outcomes APRIL 2018.xls.xlsx



Grantee Activity Number:	01-NDR-Admin02
Activity Title:	NDR-Administration-Norfolk

Activity Category:

Administration

Activity Status:

Under Way

Project Number:

01-NDR

Project Title:

Administration

Projected Start Date:

01/17/2017

Projected End Date:

09/30/2022

Benefit Type:

()

Completed Activity Actual End Date:

National Objective:

NA

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$3,137,636.19
Total Budget	\$0.00	\$3,137,636.19
Total Obligated	\$0.00	\$3,137,636.19
Total Funds Drawdown	\$117,359.40	\$259,547.87
Program Funds Drawdown	\$117,359.40	\$259,547.87
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$76,590.84	\$259,547.87
Norfolk	\$76,590.84	\$259,547.87
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Ongoing administrative functions including grant management, project planning, community involvement and project implementation.

Location Description:

This is an administrative activity for the City of Norfolk. The City's Office of Resiliency is located at 501 Boush Street, Norfolk , VA 24510.

Activity Progress Narrative:

In January, administrative activities included the overall grant and financial management such as invoices review and work orders scoping, timesheets development and review, remittance request preparation, monthly status update report preparation, and overall coordination among City staff, consultant and DHCD. The Norfolk team also continued to work with the TA Service consultants on the review and refinement of the CDBG-NDR Administrative Manual including planning for Administrative Manual rollout. Also the Norfolk team worked on file organization, document management processes, preparation for staff transitions, and training of new staff working on the grant management. In February, administrative activities included the overall grant and financial management such as invoices review and work orders scoping, timesheets, development and review, remittance request preparation, monthly status update report preparation, and overall coordination among City staff, consultants and DHCD. The Norfolk team also continued to work with the TA Service consultants on the review and refinement of the CDBG-NDR Administrative Manual including planning for Administrative Manual rollout training scheduled for



March. Also the Norfolk team worked on file organization, document management processes and workflows. Also city staff met with in Richmond for a TA visit from the HUD field office and head quarters. In March, administrative activities included the overall grant and financial management such as invoices review and work orders scoping, timesheets, development and review, remittance request preparation, monthly status update report preparation, and overall coordination among City staff, consultants and DHCD. The Norfolk team also received responses for the Construction Manager At Risk (CMAR) request for proposals. CMAR interviews were conducted, and contract negotiations have begun. Performance-based procurement for the road bump-out green infrastructure elements of the project was the focus of a workshop the Norfolk team hosted in March with City leaders, RISE, and partnering organizations and cities through our 100RC network. The Norfolk team also continued to work with the TA Service consultants on the review and refinement of the CDBG-NDR Administrative Manual including conducting Administrative Manual roll-out training held on March 27th and 28th.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document CDBGDRContractReporting_NORFOLK_APRIL_2018.xlsx

Grantee Activity Number:	01-NDR-Admin03
Activity Title:	NDR-Administration-RISE

Activity Category:

Administration

Activity Status:

Under Way

Project Number:

01-NDR

Project Title:

Administration

Projected Start Date:

01/17/2017

Projected End Date:

09/30/2022

Benefit Type:

()

Completed Activity Actual End Date:

National Objective:

NA

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$250,000.00
Total Budget	\$0.00	\$250,000.00
Total Obligated	\$0.00	\$250,000.00
Total Funds Drawdown	\$31,732.13	\$53,866.21
Program Funds Drawdown	\$31,732.13	\$53,866.21
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$31,732.13	\$53,866.21
Coastal Community Resilience, Inc.	\$31,732.13	\$53,866.21
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Administrative activity including grant management, financial services, and project development.

Location Description:

This is an administrative activity for the Non-Profit RISE. Services that RISE provide will be within the Hampton Roads area. RISE's offices are currently located at 501 Boush Street, Norfolk , VA 24510.

Activity Progress Narrative:

CAMS budget Activities and amounts were under review, and received approval on January 19, 2018. No contracts were signed in this period. On February 1, 2018, RISE hired Dr. Katerina Oskarsson as its Chief Strategy Officer. On February 26, Dr. Robinson and Dr. Oskarsson met with representatives of HUD, and DHCD in Richmond to brief them on RISE's work to date. Several suggestions arose for that meeting, including the request for eligibility criteria for entrants to the RISE/Solve Challenge, as well as the renaming of the Activity "03-NDR-B1 - NDR-RISE-Open Competitions". A follow up meeting between DHCD and RISE is planned for early March. No contracts were signed in this period. Other administrative activities included the overall grant and financial management such as invoices review and task order scoping, timesheets development, payroll set up and other Human Resource tasks associated with the onboarding of a new employee, remittance request preparation and monthly status update report preparation. RISE also worked with the TA Service consultants on the development of the CDBG-NDR Administrative Manual. Finally,



RISE contracted and worked with a website development firm on the website design and content. In March, RISE participated in several technical assistance meetings to continue to develop the CDBG-NDR Administrative Manual. Other administrative activities included the overall grant and financial management such as invoices review and task order scoping, timesheets development, payroll system refinement, remittance request preparation and monthly status update report preparation. RISE also worked with the TA Service consultants on the development of the CDBG-NDR Administrative Manual.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document CDBGDRContractReporting_RISE_APRIL_2018.xlsx

Project # / Title: 02-NDR / Ohio Creek Watershed Project

Grantee Activity Number: 02-NDR-A1

Activity Title: NDR-Stormwater Mgt-Pump Stations/Tide Gates

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:



Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$23,724,000.00
Total Budget	\$0.00	\$23,724,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

To enhance the capacity of the natural systems to deal with storm water and to protect the tidal systems from storm surge inundation, a series of pumping stations and tide gates will help manage the flows of water in the system.

As the direct leverage funding table indicates, the City of Norfolk committed \$32,120,000 in operation and maintenance costs (O&M) over the lifetime of the Ohio Creek Watershed Project. As indicated in the City of Norfolk leverage letter accepted by HUD (Page 3 of Norfolk Letter in attachment below), the O&M costs will begin when the project is complete and will continue until 2065 (the lifetime of the project). These O&M costs were estimated based on the initial 10% design and may change once the final design is complete.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Pump stations and tide gates will be located in the Chesterfield Heights and Grandy Village neighborhoods within census tracks 46 & 47. The specific location is subject to further design currently underway. At the time of the Phase II application, the engineering for the stormwater management activity of Ohio Creek Watershed project had only been designed to 10% of the final design. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office. Please see the attached supporting documentation for the evidence of the expended direct leverage for the Grandy Village Tide Gauge \$27,170.00.

Accomplishments Performance Measures

This Report Period	Cumulative Actual Total / Expected
Total	Total



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

	Amount
City of Norfolk	\$32,120,000.00
Total Other Funding Sources	\$0.00

Activity Supporting Documents

Document DirectLeverageGrandyVTideGauge1211201784826.pdf

Grantee Activity Number:	02-NDR-A2
Activity Title:	NDR-Stormwater Mgt-Water Retention Street Retrofit

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$32,600,000.68
Total Budget	\$0.00	\$32,600,000.68
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Several existing streets in the project area specified above will be retrofitted with pervious pavement and bioswales to manage rain-induced flooding and increase the capacity of the existing stormwater system. Please see attached for examples of the described activity.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

Portions of several existing streets that will be retrofitted are located in the Chesterfield Heights and Grandy Village neighborhoods within census tracks 46 & 47. The specific location is subject to further design currently underway. Stormwater modeling currently underway will determine the exact location of these retrofits. At the time of the Phase II application, the engineering for the stormwater management activity of Ohio Creek Watershed project had only been designed to 10% of the final design.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.



Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/6000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Norfolk	\$27,170.00
Total Other Funding Sources	\$0.00



Grantee Activity Number: 02-NDR-A3
Activity Title: NDR-Stormwater Mgt-Parcel Level Water Retention

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$140,350.00
Total Budget	\$0.00	\$140,350.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

To mitigate the vulnerability to street and neighborhood flooding, parcel-level water retention improvements such as rain gardens will help capture and reduce the intensity of stormwater runoff within the neighborhood. These parcel-level improvements will work together as a part of a flood management system in combination with other stormwater and coastal activities included in the DRGR system. These parcel-level improvements will help to prevent the undersized system from being overwhelmed and from water backing up into the streets. See attached for examples of the described activity.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Various parcels within the project area will be retrofitted with parcel-level water retention features such as rain gardens. The specific location is subject to further design currently underway. In particular, stormwater modeling currently underway will determine the exact location of these retrofits. The location will be determined by the absorption capacity and a soil type. At the time of the Phase II application, the engineering for the stormwater management activity of Ohio Creek Watershed project had only been designed to 10% of the final design. The further design will generate a number of alternatives for the community to choose from.



DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Acres wetlands	0	0/1
# of Linear feet of green public	0	0/10

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	02-NDR-A4
Activity Title:	NDR-Stormwater Mgt-Parcel Level Education Program

Activity Category:

Public services

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$100,000.00
Total Budget	\$0.00	\$100,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

As part of the stormwater collection program and in order to bring about a community wide sense of responsibility for personal environmental impacts, the City will implement various initiatives to educate residents about the benefits of parcel- and street-level water retention green infrastructure. An example of such initiative is a "Retain Your Rain" educational and capacity building workshop in which residents learn about the benefits of green infrastructure and how to install such infrastructure in their neighborhood. The city has already successfully piloted these workshops in other areas of the city. We project to reach at least 500 residents of the project area. However, it will be difficult to determine individual income status of the engaged residents.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:



The start date for this activity is yet to be determined.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	02-NDR-A5
Activity Title:	NDR-Stormwater Mgt-Retention Ponds/Restored Wetlan

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$7,290,723.00
Total Budget	\$0.00	\$7,290,723.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The capacity of the existing marshes and wetlands in the area will be improved to accommodate stormwater from upstream. The marsh retention areas will be connected to and integrated with the wetlands to provide rainwater storage. The passage of stormwater through restored wetlands and marshes will not only help reduce flooding but also improved water quality.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Acres wetlands	0	0/5

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	02-NDR-B1
Activity Title:	NDR-Coastal Management-Living Shoreline

Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Under Way

Project Number:

02-NDR

Project Title:

Ohio Creek Watershed Project

Projected Start Date:

03/01/2019

Projected End Date:

09/30/2022

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Low/Mod

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$2,348,000.00
Total Budget	\$0.00	\$2,348,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The living shoreline will be constructed along the part of the Elizabeth River bank. The living shoreline will be placed parallel to the shore and will create habitat for species, safeguard the shoreline from erosion due to wave energy, soak up stormwater, reduce storm surge and trap polluted runoff. When combined with the shoreline berm, a robust living shoreline will increase durability and effectiveness for the flood protection structure.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. A robust living shoreline will be constructed along the part of the Elizabeth River bank. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of green public	0	0/2000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Elizabeth River Project	\$440,000.00
Total Other Funding Sources	\$0.00



Grantee Activity Number:	02-NDR-B2
Activity Title:	NDR-Coastal Management-Flood Walls

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$7,253,600.00
Total Budget	\$0.00	\$7,253,600.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

To increase resilience to coastal flood events , several locations along the river front have inadequate space to provide a properly sloped berm due to the existing infrastructure in the project area. In these areas, a vertical flood wall is proposed on the river side with a graded landscape feature on the inland side.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

Several locations along the river front have inadequate space to provide a properly sloped berm due to the existing infrastructure in the project area. In these areas, a vertical flood wall is proposed on the river side. The exact location along the shoreline will be determined by the design and modeling work currently underway. The design phase will generate a number of alternatives for the community to choose from.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has



been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	02-NDR-B3
Activity Title:	NDR-Coastal Management-Coastal Berm

Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Planned

Project Number:

02-NDR

Project Title:

Ohio Creek Watershed Project

Projected Start Date:

03/01/2019

Projected End Date:

09/30/2022

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Low/Mod

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$7,472,000.00
Total Budget	\$0.00	\$7,472,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Along the Elizabeth River the berm will be built as part of the coastal flood protection system. The berm will be vegetated with grasses and indigenous plants. If desired by the community, a walking path can be placed on the river front of the berm to provide recreational amenity. In this way, the flood-protection feature will be visually integrated into the existing landscape.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west.

Along the Elizabeth River waterfront, a coastal berm will be built as a part of the coastal protection system. The exact location of the berm will be determined by the design and modeling work currently underway. The design phase will generate a number of alternatives for the community to choose from.

DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:



Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/2000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	02-NDR-B4
Activity Title:	NDR-Coastal Management - Road Improvements

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

02-NDR

Projected Start Date:

03/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$8,300,000.00
Total Budget	\$0.00	\$8,300,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Portions of some streets may have to be raised or otherwise retrofitted as part of the coastal flood protection. Road retrofits will prevent water from flowing over the roads and will improve passage and safe egress in and out of the adjacent neighborhoods during flood events.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Portions of the project area roads may have to be raised or otherwise retrofitted as par of the system of costal flood protection. The exact location of these roads will be determined by the design and modeling work underway. The design phase will generate a number of alternatives for the community to choose from. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has



been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office. Please see the attached supporting documentation for the evidence of the expended direct leverage for this activity. The leverage includes road improvements to Kimball Terrace totaling \$1,175,069.60 and to Westminster Ave for \$220,622.41.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Norfolk	\$1,395,692.00
Total Other Funding Sources	\$0.00

Activity Supporting Documents

Document	
	SupportdocumentNorfolkDirectLeverageCombined1115201784231.pdf



Grantee Activity Number:	02-NDR-C1
Activity Title:	NDR-Land Acquisition

Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Planned

Project Number:

02-NDR

Project Title:

Ohio Creek Watershed Project

Projected Start Date:

03/01/2019

Projected End Date:

09/30/2022

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Low/Mod

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$3,000,000.00
Total Budget	\$0.00	\$3,000,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Depending on the further design, modeling and community preferences, some land may have to be acquired to accommodate flood protection components such as flood walls.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. Depending on the further design, modeling and community preferences, some land may have to be acquired to accommodate flood protection components. The exact location is subject to further design and community preferences. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Norfolk Redevelopment and Housing Authority	\$15,000,000.00
S.L. Nusbaum Reality Co.	\$20,000,000.00
Total Other Funding Sources	\$0.00



Grantee Activity Number:	02-NDR-D1
Activity Title:	NDR-Ohio Creek Watershed Planning

Activity Category:

Planning

Project Number:

02-NDR

Projected Start Date:

01/17/2017

Benefit Type:

Area ()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Ohio Creek Watershed Project

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$17,292,876.32
Total Budget	\$0.00	\$17,292,876.32
Total Obligated	\$0.00	\$17,292,876.32
Total Funds Drawdown	\$2,110,778.71	\$4,368,689.73
Program Funds Drawdown	\$2,110,778.71	\$4,368,689.73
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$4,107,581.15	\$4,368,689.73
Norfolk	\$4,107,581.15	\$4,368,689.73
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Planning activities are intended to take the 10% design concepts and ideas initially proposed in the application and further the design process up to project readiness. Planning activities are intended to result in identifying targeted strategies focused on how best to reduce flood risk and deliver on resilience goals in the Ohio Creek project area in the most effective and environmentally sound ways. This will be achieved by the City of Norfolk revisiting the project components with the community, city staff, design experts and other stakeholders to maximize value without reducing the scope or benefits presented in the application. Results will be identified through conducting planning workshops, environment review, design sessions and community meetings.

Location Description:

The Ohio Creek watershed project area lies within the City of Norfolk and includes Census Tracts 46 and 47. The project area within these two census tracts contains residential neighborhood areas of Grandy Village and Chesterfield Heights. The area is approximately bounded by the Eastern Branch of the Elizabeth River to the south, Norfolk State University area to the north, Capital Concrete industrial site to the east and a shipyard along with South Brambleton area to the west. DRGR will not allow us to update GIS Shape files or "Identify Census Geography" at this time. Please see the PDF map of the project service area below.

Activity Progress Narrative:



In January, the design team continued to work on the schematic design and the water-retention amenities plan for the project area. The modeling and surveying work also continued to progress and the team began to meet with regulatory agencies as part of the environmental review process. As part of the environmental review process, the team also continued to plan for the public scoping meeting for the environmental impact statement. The Norfolk team also continued community engagement around the project by holding two community meetings to present and solicit feedback on the water retention amenities plan (following the input gathering community workshops in November). Norfolk also distributed the first quarterly newsletter for project area residents about the project, and sent out letters for easements and acquisitions to all previously engaged residents impacted by the project. The Norfolk team also reviewed the RFQ submissions and worked on the development of the Request for Proposals (RFP) for the Construction Manager at Risk (CMAR) Finally, the Norfolk team continued the Section 3 planning process, the development of a green infrastructure pattern book, and the development of the opportunities matrix for evaluating potential next steps for resilient redevelopment of selected publicly-owned sites in the project area.

In February, the design team continued to work on finalizing the schematic design and water-retention amenities plan for the project area to go with the projects NEPA application. The stormwater modeling and survey work also continued to progress along with the development of a green infrastructure pattern book. As part of the environmental review process, the team prepared for and held the NEPA public scoping meeting for the project. The project team also continued to meet with property owners about the project and following up with regarding easements and acquisitions. The team has also been coordinating with the department of utilities regarding planned work activities in the project area to identify co-benefiting opportunities during construction. The city staff have also been engaging with public by way of interviews with the local public radio station, project update presentations for the Grandy Village Learning Center and Elizabeth River Committee, and discussions with the Nauticus Naval Museum about a resilience exhibit.

In March, the design team submitted the interim schematic design for review and inclusion in the projects NEPA application. The Norfolk Team met with City departmental stakeholders to review and provide additional input for key project elements related to parks and recreation, transportation, and stormwater management. The Norfolk team also met in Richmond with DHCD for the environmental review quarterly meeting. The stormwater modeling and survey work also continued to progress along with the development of a green infrastructure pattern book. The project team also continued to meet with property owners about the project impacts regarding easements and acquisitions. The team has also been continuing to coordinate with the department of utilities regarding planned work activities in the project area to identify co-benefiting opportunities during construction. The city staff have also been engaging with public by distributing a new quarterly newsletter to all residents in the project area and project update presentations. Presentations were given to the Grandy Village Residents Group, Ghent and Freemason Civic Leagues, Norfolk Planning Commission, LEAD Hampton Roads, and the College of William Mary.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of community engagement	23	59/10

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found



Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Project # / Title: 03-NDR / Coastal Resilience Laboratory & Accelerator Center**Grantee Activity Number: 03-NDR-A1****Activity Title: NDR-RISE-Revolving Loan Fund****Activity Category:**

Econ. development or recovery activity that creates/retains

Activity Status:

Under Way

Project Number:

03-NDR

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected Start Date:

01/17/2017

Projected End Date:

09/30/2022

Benefit Type:

Direct (Person)

Completed Activity Actual End Date:**National Objective:**

Urgent Need

Responsible Organization:

Coastal Community Resilience, Inc.

Overall

	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$600,000.00
Total Budget	\$0.00	\$600,000.00
Total Obligated	\$0.00	\$600,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity will support innovative resiliency efforts through a business loan program. Businesses developing innovative resilient technologies may require funding to expand and diversify. Businesses with interest in developing resiliency related goods and services will be evaluated by RISE staff, board and consultants to determine if a RISE investment is viable and further cultivate the product financing and development stages. The loan program guidelines are being developed by RISE's staff, Board and consultants. These capital injections in the form of loans will help retain and create new jobs. The actual loans will be made under Grantee Activity Number 03-NDR-01. Planning efforts under the planning activity (03-NDR-C1) for this activity will include developing the loan description, legal documents, loan assessment and due diligence processes. This may include assisting private, for-profit businesses. Assistance may include, loans, loan guarantees, and technical assistance; and providing



economic development services in connection with otherwise eligible CDBG economic development activities as allowed through the Regulatory/Statutory Citations: Section 105(a)(2), Section 105(a)(4), Section 105(a)(14), Section 105(a)(15), Section 105(a)(17), Section 105(a)(19), 570.201(c), 570.201(o), 570.202, 570.203 (a), (b) and (c), 570.204. There is the possibility to generate program income from this activity. For planning purposes there is a preliminary \$20,000 in estimated program income that will be generated through loan interest repayments. This is a separate DRGR Activity. An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. On December 18, 2017, this waiver was published in the Federal Register. The original budget amount for this planning activity was set at an amount that that allowed for the development of planning activities that would further identify the operations and structure of the revolving loan fund. The focus of this activity over the past few months has been refined and \$500,000 which were set-aside for planning purposes are no long needed and will be transferred to the implementation of the revolving loan fund. The transfer of these funds increase the proposed beneficiaries from 10 people to 15 people and from 10 jobs created to 15 jobs created.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.

Activity Progress Narrative:

Efforts to define the eligibility criteria to recipients of the Revolving Loan funds were initialed by RISE and its consultants at GCR. A brief summary memo outlining the CDBG-NDR criteria associated with the Revolving Loan funds has been provided to DHCD.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Businesses	0	0/5

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/0	0/0	0/15	0

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/0	0/0	0/15	0

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found



Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number: 03-NDR-B1

Activity Title: NDR-RISE-Open Procurement Competitions

Activity Category:

Econ. development or recovery activity that creates/retains

Project Number:

03-NDR

Projected Start Date:

07/01/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$1,750,000.00
Total Budget	\$0.00	\$1,750,000.00
Total Obligated	\$0.00	\$1,750,000.00
Total Funds Drawdown	\$50,235.91	\$50,235.91
Program Funds Drawdown	\$50,235.91	\$50,235.91
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$50,235.91	\$50,235.91
Coastal Community Resilience, Inc.	\$50,235.91	\$50,235.91
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Procurement challenges will solicit individuals, teams or companies to design, build and test prototypes of resiliency technologies with a view to demonstrating capability. Key to this activity is that the resilience technologies must not be currently available. They will meet a specific set of needs set by the NDRC program that are not met by any product. Successful entries will be selected to proceed to manufacture and sale of the products for the NDRC Ohio Creek work. Testing and assembly will be done in the Hampton Roads area providing jobs in the region. Manufacturing will be done in the Hampton Roads region as long as there is the capability and resources to do so. This activity is focused on job creation. Planning activities (under 03-NDR-C1) include: development of the procurement process in accordance with CDBG regulations, 2 CFR 200 regulations, marketing approach, prize description and legal materials, and prize operation procedures.

An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. As of this Action Plan Submittal, this waiver has not been published in the Federal Register.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.



Activity Progress Narrative:

January

RISE is working with MIT Solve to develop Coastal Community resilience related challenge prizes. Solve is an MIT initiative to address global challenges using its network of innovators around the world. In 2018, resilience will be one of its focus topic areas and RISE is a key driver of this. RISE held a Challenge Design workshop with Solve in Norfolk on January 24 to develop the resilience topics for Solve 2018. The 58 attendees consisted of subject matter experts, government officials, and local stakeholders. Topics from this workshop will be posted to solvers around the world to innovate solutions.

RISE is working with the City of Norfolk, 100 Resilient Cities, and Citymart to discuss how to develop performance based procurement in city procurement. Efforts are underway to hold a workshop for city procurement and legal personnel to discuss this. This will be an important component in RISE's operations in order to reward successful challenge prize entrants with a procurement and first customer. The workshop is being scheduled for early March 2018.

February

Following the Challenge Design Workshop (CDW), held in Norfolk on January 24, 2018, in February RISE worked with MIT Solve on the synthesis of the workshop participants' input and the development of the competition topics, details, and structure. The CDW participants' input resulted in five main topics that are in need of innovative solutions because the known traditional approaches to these coastal communities' problems are too costly or otherwise unsustainable:

1. Cost-effective management of storm-, tidal-, and ground-water
2. Big data analytics for operating and living around recurrent flooding
3. Maintaining building viability in the face of recurrent "nuisance" flooding and acute shocks
4. Restoring and maintaining critical infrastructure to major city facilities for 72 hours
5. Reconnecting neighborhoods disconnected physically, digitally, and economically from the rest of a city.

Instead of developing a competition from scratch, RISE is leveraging the existing and globally known MIT Solve Global Challenge to attract as many entrepreneurs and small businesses to submit innovative solutions that address the five topics/resilience challenges faced by coastal communities. RISE will offer the opportunity (subject to due diligence review) to receive investment funds to qualifying members of the Coastal Communities Solver class for solutions that can be prototyped in Hampton Roads (with an eye to replicability in other coastal locations). In order to aid applicants in their solutions, RISE spent a substantial portion of February on the development of use cases and background materials for the five topics and coordination with Solve. The topic announcement was made on February 28, 2018. The Solve and RISE websites went live with this information on that day.

March

In March, RISE finalized preparation for and executed the procurement workshop with the City of Norfolk, Citymart and 100RC and the City of Boston. The goal of the workshop was to develop a shared understanding of how procurement 1) can be leveraged as a tool to drive resilient outcomes 2) can be leveraged to buy more innovative and price competitive solutions and expand the opportunity for small businesses to compete in the region 3) learn from other cities' experience and lay the foundation to test outcome based open challenges. Following the workshop, RISE started exploring with the City of Norfolk opportunities to test the outcome-based/open challenge approach on several cases. RISE also continued to work on program design for the Coastal Community Resilience Challenge and the Resilience Innovation Fund for small businesses and non-profit entities interested in applying for support from RISE.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Businesses	0	0/15

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/0	0/0	0/45	0
# of Permanent Jobs Retained	0	0	0	0/0	0/0	0/10	0



	This Report Period			Cumulative Actual Total / Expected				
	Low	Mod	Total	Low	Mod	Total	Low/Mod	
# of Persons	0	0	0	0/0	0/0	0/55	0	

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 03-NDR-B2

Activity Title: NDR-RISE-R&D Venture/Support

Activity Category:

Econ. development or recovery activity that creates/retains

Project Number:

03-NDR

Projected Start Date:

01/17/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$814,473.00
Total Budget	\$0.00	\$814,473.00
Total Obligated	\$0.00	\$814,473.00
Total Funds Drawdown	\$7,674.48	\$7,674.48
Program Funds Drawdown	\$7,674.48	\$7,674.48
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$7,674.48	\$7,674.48
Coastal Community Resilience, Inc.	\$7,674.48	\$7,674.48
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity will provide assistance to companies developing innovative resilient technologies. This assistance may also come in the form of financial, technical, or managerial/consulting services. Financial assistance may come in the form of seeking additional financial assistance, underwriting, or direct investment of infrastructure or equipment. This activity will assess companies and provide assistance which, in turn, will help companies grow, retain and create jobs. In addition to internal technical assistance, RISE has interest in procuring the services of a public benefit corporation such as 1776 which will provide mentoring and access to global markets. Planning activities (under 03-NDR-C1) for this activity will include: assistance with programs, legal documents, company assessment, and due diligence processes.

An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. This waiver has been approved and was published in the Federal Register on December 18, 2017.

The original budget amount for this planning activity was set at an amount that that allowed for the development of planning activities that would further identify the operations and structure of the R & D Venture and Support activity. The focus of this activity over the past few months has been refined and \$264,473.00 which were set-aside for planning purposes are no longer needed and will be transferred to the implementation of the R & D Venture and Support activity. The transfer of these funds increase the proposed beneficiaries from 50 people to 55 people and from 40 jobs created to 45 jobs created. There are no anticipated changes in the number of businesses created.



Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York and the Town of Smithfield.

Activity Progress Narrative:

January

Solicitation for the Communications Pilot project closed December 6. RISE has received 7 submissions; 2 from vendors local to Hampton Roads. RISE has elected the City of Norfolk Community Service Building as the base for the gateway radios. All vendors have been contacted and Agreements are being completed. RISE has been working with city groups to support the installations, including IT, and Public Works.

RISE will be hosting water level sensors for evaluation from three companies under a Small Business Innovative Research Phase II grant from the Department of Homeland Security (DHS). These sensors will arrive in the summer. RISE has been coordinating with on requirements for the evaluation.

RISE is a subcontractor on a contract with the University of Virginia (UVA) "dMIST: Data-driven Management for Interdependent Stormwater and Transportation Systems", from the National Science Foundation. RISE is in discussions with UVA on RISE's role in the program.

February

Work progressed on the Communication Pilot. RISE received 7 submissions. One company dropped out. Ijinus, a French company, installed four sensors in the Ghent neighborhood in Norfolk. In the coming month the other 5 vendors will install their sensors. The City of Norfolk has been instrumental in making the site selection and installation process very straightforward and expeditious.

RISE will be hosting water level sensors for evaluation from three companies under a Small Business Innovative Research Phase II grant from the Department of Homeland Security (DHS). These sensors will arrive in the summer. RISE continues to coordinate with DHS on requirements for the evaluation.

March

In March, RISE continued the execution of the communication pilot. Fybr completed their communication system installation by installing 1 weather station, 5 parking sensors including 1 camera (watching the parking spots), 1 water level sensor, and 2 groundwater sensors. They included a gateway for communication to the cloud. Fybr has also been supportive in providing RISE with information on parking implementations in Washington, DC, and San Francisco.

Other installations are expected in April of the remaining 4 vendors, three of which are local to the Hampton Roads area. The 4 month evaluation period is expected to commence April 16th.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Businesses	0	0/10

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/0	0/0	0/45	0
# of Permanent Jobs Retained	0	0	0	0/0	0/0	0/12	0

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/0	0/0	0/55	0

Activity Locations

No Activity Locations found.



Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	03-NDR-B3
Activity Title:	NDR-RISE-Resilience Campus

Activity Category:

Econ. development or recovery activity that creates/retains

Project Number:

03-NDR

Projected Start Date:

07/01/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$1,250,000.00
Total Budget	\$0.00	\$1,250,000.00
Total Obligated	\$0.00	\$1,250,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

In order for companies to build, test, prototype, and scale up their designs, RISE will establish and run a Resilience Campus. The Campus will provide space and laboratory facilities for these companies to operate. It may include the acquisition, construction, reconstruction, or rehabilitation of a separate building or it may result in the development of existing space or RISE may partner with a local university with appropriate laboratory facilities. Equipment and laboratory materials may be required to allow for product testing. This activity will be undertaken through the eligibility allowed through the Special Economic Development activities as laid forth in Regulatory/Statutory Citations: Section 105(a)(2), Section 105(a)(4), Section 105(a)(14), Section 105(a)(15), Section 105(a)(17), Section 105(a)(19), 570.201(c), 570.201(o), 570.202, 570.203 (a), (b) and (c), 570.204.

Planning efforts for this activity will be minimal and consist of developing how the Resilience Campus will interface with other activities and will occur under activity 03-NDR-C1.

An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. As of this Action Plan Submittal, this waiver has not been published in the Federal Register.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.



Activity Progress Narrative:

No Activity at this time.

Accomplishments Performance Measures

	This Report Period		Cumulative Actual Total / Expected	
	Total		Total	
# of buildings (non-residential)	0		0/1	
# of Businesses	0		0/1	

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/0	0/0	0/4	0

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/0	0/0	0/4	0

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	03-NDR-B4
Activity Title:	NDR-RISE-Corporate Engagement

Activity Category:

Econ. development or recovery activity that creates/retains

Project Number:

03-NDR

Projected Start Date:

07/01/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$325,000.00
Total Budget	\$0.00	\$325,000.00
Total Obligated	\$0.00	\$325,000.00
Total Funds Drawdown	\$3,829.19	\$3,829.19
Program Funds Drawdown	\$3,829.19	\$3,829.19
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$3,829.19	\$3,829.19
Coastal Community Resilience, Inc.	\$3,829.19	\$3,829.19
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity will work with corporations to become involved in resilience efforts in Hampton Roads. RISE will broker needs of the cities, corporations, and local businesses to ensure that the necessary relationships are established and maintained. This activity will support success of activities #03-NDR-B1, 03-NDR-B2, and 03-NDR-B3. Although this activity may not directly retain or create jobs, it will be a key component to success by assisting smaller companies in growth, manufacturing, facilities, and knowledge base that may not be available to them. Planning activities for this effort will include generation of databases of eligible companies in the resilience sector, contacts, and partnership structure(s). Planning will also include conversations with companies to refine materials and approaches, and develop pathways forward to establish joint efforts under 03-NDR-C1. An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. As of this Action Plan Submittal, this waiver has not been published in the Federal Register.

<!--[if !supportAnnotations]-->

<!--[if !supportAnnotations]--> <!--[endif]-->

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and



the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.

Activity Progress Narrative:

January

Efforts in corporate engagement in January focused on engagement around the communications pilot described in 03-NDR-B2. In addition, discussions have been ongoing with Veolia with their Smart Cities group to establish discussions with City of Norfolk.

The development of the RISE/Solve Challenge Design Workshop (activity 03-NDR-B1 above), required significant outreach to corporate partners locally and globally. Many were entities that RISE had been in contact with, and some were new. It is hoped that this process with Solve will enhance RISE's visibility within this community.

February

The development of the RISE/Solve Challenge Design Workshop (activity 03-NDR-B1 above), required significant outreach to corporate partners locally and globally. In February, RISE followed up with major local stakeholders: Sentara Norfolk General Hospital, The Port of Virginia, and Naval Station Norfolk. The discussion was about the RISE subtopics and to ensure that we adequately capture the stakeholders' interests and priorities. As part of the communication pilot and procurement workshop activities, RISE also engage regional universities, organization such as 100 Resilient Cities and other US cities.

March

In March, RISE continued its engagement efforts to identify opportunities for collaboration and raise awareness about RISE's mission and activities. Specifically, RISE met with the University of Virginia to discuss collaboration around the dMIST project (data-driven management interdependent stormwater and transportation systems) planned for piloting in Norfolk. RISE also met with Old Dominion University's new Associate Vice President for Entrepreneurship and Economic Development and other ODU staff, 757 Accelerate and 757 Seed to discuss opportunities for partnership and coordination of efforts in Hampton Roads. On multiple occasions, RISE also engaged 100 Resilient Cities to learn about 100RC's new Resilience Accelerator activities and brief 100RC on RISE's activities to surface common areas of interest. RISE also began an outreach about the RISE Coastal Communities Resilience Challenge to Hampton Roads universities, including ODU and William & Mary. Finally, RISE continued to research and develop an outreach list to promote the Challenge and upcoming funding opportunities to small businesses and non-profit organizations.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Businesses	0	0/5

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/0	0/0	0/10	0

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/0	0/0	0/10	0

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found



Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	03-NDR-B5
Activity Title:	NDR-RISE-Workforce Development

Activity Category:

Public services

Project Number:

03-NDR

Projected Start Date:

07/01/2017

Benefit Type:

Direct (Person)

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$235,527.00
Total Budget	\$0.00	\$235,527.00
Total Obligated	\$0.00	\$235,527.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

As a result of the RISE’s efforts, there will be demand for local workforce. Jobs may range from low-skilled assembly positions, to higher skilled manufacturing and design positions. This activity will work with local organizations to ensure there is a pipeline of suitably trained local workers to fill these needs. High school and college students will be targeted to receive training for resiliency related jobs. Planning for this activity will develop coordination with existing local workforce develop efforts, developing needs for resilience workforce, and building the organization to implement the workforce development plan under 03-NDR-C1.

An eligibility waiver request for the regional Coastal Resilience Lab and Accelerator Center (CLRAC) was requested of HUD on July 6, 2016. This waiver is required because the Center design does not break down neatly into CDBG eligibility categories. Portions of the Center program are eligible activities while other portions appear to be outside the usual CDBG realm. CLRAC staff will be coordinating the various types of assistance into a coherent whole, moving between supporting eligible and currently potentially ineligible activities. As of this Action Plan Submittal, this waiver has not been published in the Federal Register.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.



Activity Progress Narrative:

No activity at this time.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/0	0/0	0/4	0

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number: 03-NDR-C1

Activity Title: NDR-RISE Planning

Activity Category:

Planning

Project Number:

03-NDR

Projected Start Date:

03/01/2017

Benefit Type:

Area ()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Coastal Resilience Laboratory & Accelerator Center

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$25,000.00
Total Budget	\$0.00	\$25,000.00
Total Obligated	\$0.00	\$25,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity is to support RISE's planning efforts to design the business loan program, accelerate global market activity by developing a regional "living laboratory" to test innovation, and to facilitate partnerships and collaboration in the resilience and coastal adaptation fields that lead to economic growth in the Hampton Roads Region. Planning activities will be undertaken which support the implementation of the Business Loan Pool, Procurement Challenges, R & D Venture/Support, Resilience Campus, Corporate Engagement and Workforce Development activities. Attached is a planning document which describes RISE's strategic initiatives in the Hampton Roads area which reinforce the need for a regional focus for climate change solutions in the Commonwealth's coastal areas. On January 11, 2018, this Action Plan was revised to move \$764,473.00 from the planning activities to project implementation. The original budget amount for this planning activity was set at an amount that allowed for the development of planning activities that would further identify the operations and structure of the R & D Venture and Support activity and Revolving Loan Fund. The focus of the planning activities over the past few months has been refined and it has been determined that funds would be best used in project implementation. The planning budget has been reduced from a total of \$789,473 to \$25,000 through this revision number two.

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York and the Town of Smithfield.



Activity Progress Narrative:

No activity at this time.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Project # / Title: 04-LTC / Long-Term Commitments

Grantee Activity Number: 04-LTC-01

Activity Title: LTC-Code/Ordinance Revision

Activity Category:

NDR - Long Term Commitment

Project Number:

04-LTC

Projected Start Date:

01/01/2014

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Long-Term Commitments

Projected End Date:

01/23/2018

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall

Jan 1 thru Mar 31, 2018

To Date



Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Revision of the City's Code/Ordinance.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

There were no new houses built at 3 feet above the base flood elevation in the 100 year floodplain in this reporting period.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Housing Units	0	1/96121

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	04-LTC-02
Activity Title:	LTC-Zoning Ordinance Revision

Activity Category:

NDR - Long Term Commitment

Project Number:

04-LTC

Projected Start Date:

09/09/2014

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Long-Term Commitments

Projected End Date:

10/30/2017

Completed Activity Actual End Date:

01/23/2018

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The zoning ordinance revision begun in 2014. City staff expects City Council approval around October 2017.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed in January 2018. Norfolk City Council passed the new zoning ordinance that inclusive of resilience provisions on January 23, 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Housing Units	96121	96121/96121



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	04-LTC-03
Activity Title:	LTC-Recurrent Flooding/Stormwater Fund

Activity Category:

NDR - Long Term Commitment

Project Number:

04-LTC

Projected Start Date:

01/01/2014

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Completed

Project Title:

Long-Term Commitments

Projected End Date:

01/31/2017

Completed Activity Actual End Date:

01/01/2014

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The recurrent flooding/stormwater fund was established on 1/1/2014. Fee collection is ongoing and funds are used to address the City-wide stormwater and flooding issues. Fee collection is ongoing.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

The recurrent flooding/stormwater fund was established on 1/1/2014. Fee collection is ongoing.No projects were implemented during this reporting period.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Housing Units	0	0/96121



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Grantee Activity Number: 04-LTC-04
Activity Title: LTC-Resilience Strategy

Activity Category:

NDR - Long Term Commitment

Project Number:

04-LTC

Projected Start Date:

10/28/2015

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Completed

Project Title:

Long-Term Commitments

Projected End Date:

01/17/2017

Completed Activity Actual End Date:

10/28/2015

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The City of Norfolk's Resiliency Strategy was released on October, 28, 2015. The implementation of the strategy is on going.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed. The City of Norfolk's Resiliency Strategy was released on October, 28, 2015.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Housing Units	0	192242/96121



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	04-LTC-05
Activity Title:	LTC-NFIP Community Rating System

Activity Category:

NDR - Long Term Commitment

Project Number:

04-LTC

Projected Start Date:

05/01/2014

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Completed

Project Title:

Long-Term Commitments

Projected End Date:

01/31/2017

Completed Activity Actual End Date:

08/31/2017

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The City has been re-evaluated on their National Flood Insurance Program Community Rating System (CRS). The new score will be released on May 1, 2017.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed in August 2017 when Norfolk moved from a Community Rating System's Class 9 to a Class 8. The new NFIP CRS score won't be released until the summer 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Housing Units	0	192242/96121



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Project # / Title: 05-SL / Supporting Leverage

Grantee Activity Number: 05-SL-01

Activity Title: SL-Commonwealth of Virginia Initiatives

Activity Category:

NDR - Supporting Leverage

Project Number:

05-SL

Projected Start Date:

01/17/2017

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Supporting Leverage

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Commonwealth of Virginia

Overall

Total Projected Budget from All Sources

Jan 1 thru Mar 31, 2018

To Date

N/A

\$0.00

Total Budget

\$0.00

\$0.00

Total Obligated

\$0.00

\$0.00

Total Funds Drawdown

\$0.00

\$0.00

Program Funds Drawdown

\$0.00

\$0.00

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$0.00

\$0.00

Commonwealth of Virginia

\$0.00

\$0.00

Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Various capital improvement projects have either been completed or are underway which improve the environmental integrity of the region through enhanced drainage, providing more resilient infrastructure, and improving social and economic resiliency in flood-prone and environmentally sensitive areas. These were initiatives under taken by other State Agencies.

Location Description:

The project location for Commonwealth of Virginia supporting leverage includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York and the Town of Smithfield.

Activity Progress Narrative:

The Commonwealth of Virginia has expended \$47,732,404.92 of the \$70,493,642.00 committed in Supporting Leverage. Please see the attached spreadsheets for details.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

Match Sources	Amount
Commonwealth of Virginia	\$70,493,642.00
Subtotal Match Sources	
Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents





Grantee Activity Number:	05-SL-02
Activity Title:	SL-City of Norfolk

Activity Category:

NDR - Supporting Leverage

Project Number:

05-SL

Projected Start Date:

01/17/2017

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Supporting Leverage

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

12/31/2014

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The City of Norfolk commitment of \$125,000.00 in funding to support activities directly related to undertaking the CDBG-NDR proposal. The Funds were used during December 2014 to support an Urban Land Institute RESilience Technical Panel, the result of which will be used in the development of projects during Phase 2 of the NDRC grant process. See attachment for letters of support in leverage that were accepted by HUD.

Location Description:

The project Location for supportin environment leverage includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York and the Town of Smithfield.

Activity Progress Narrative:

The attached letter confirms that the City of Norfolk was a recipient of the Urban Land Institute Resilience Advisory Services Panel in December 2014. The value of the panel was \$125,000.



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

Match Sources

Old Dominion University

Amount

\$125,000.00

Subtotal Match Sources

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document 3_SupportLeverageCityofNorfolk12500029201891855.pdf

Grantee Activity Number:	05-SL-03
Activity Title:	SL-Concursive Corporation

Activity Category:
NDR - Supporting Leverage

Project Number:
05-SL

Projected Start Date:
01/03/2015

Benefit Type:
()

National Objective:
Low/Mod

Activity Status:
Completed

Project Title:
Supporting Leverage

Projected End Date:
12/31/2015

Completed Activity Actual End Date:
12/31/2015

Responsible Organization:
Commonwealth of Virginia

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Commonwealth of Virginia	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The Concursive Corporation committed to matching \$25,000 in funds by The Up Center for Implementation for a pilot project supporting the CDBG-NDR grant proposal in the City of Norfolk target area. The pilot project was located in one of the Most Impacted and Distressed neighborhoods with Unmet Recovery Needs and test the ability of volunteers at a hyper-local level connected through technology and trained by neighborhood associations and civic leagues to better support vulnerable citizens.

Location Description:

Various neighborhoods in Norfolk that currently experience flooding or are prone to future flooding.

Activity Progress Narrative:

In the attached letter, Concursive Corporation confirmed the implementation of a pilot project in the qualified MID-URN area. The pilot project involved designing smartphone-based applications to connect community solutions to existing resilience problems and exceed the committed \$25,000.00 in supporting leverage.



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

Match Sources

Concursive Corporation

Amount

\$25,000.00

Subtotal Match Sources

Other Funding Sources

No Other Funding Sources Found

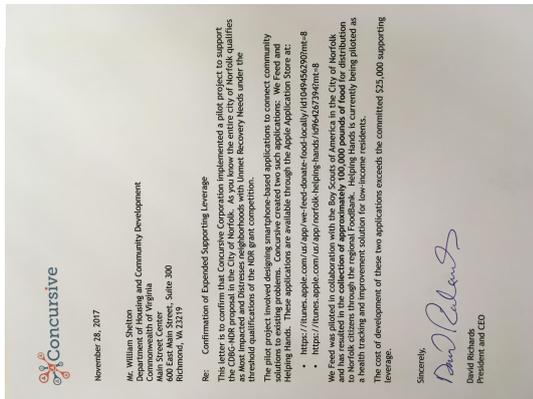
Amount

Total Other Funding Sources

Activity Supporting Documents

Document 3_Concursive Confirmation Letter.jpg

Image:



Project # / Title: 06-OV / Outcome Values

Grantee Activity Number:

06-OV-LTC-C/OR-01

Activity Title:

OV-LTC Code/Ordinance Revision NDR - Economic OV

Activity Category:

NDR - Economic Value

Activity Status:

Under Way

Project Number:

Project Title:

06-OV

Outcome Values

Projected Start Date:

09/09/2014

Projected End Date:

01/17/2017

Benefit Type:

Area ()

Completed Activity Actual End Date:

01/23/2018

National Objective:

NA

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-01 titled "Code/Ordinance Revision."
This Outcome Value is in the Economic category reporting on the # of revised zoning codes incorporating resiliency adopted.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed in January 2018. Norfolk City Council passed the new zoning ordinance that inclusive of resilience provisions on January 23, 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# zoning amendments passed	1	1/1



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	06-OV-LTC-C/OR-02
Activity Title:	OV-LTC Code/Ordinance Revision NDR - Resilience OV

Activity Category:
NDR - Resilience Value

Project Number:
06-OV

Projected Start Date:
01/01/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Outcome Values

Projected End Date:
01/17/2017

Completed Activity Actual End Date:

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-01 titled "Code/Ordinance Revision."
This Outcome Value is in the Resiliency category reporting on the # of new structures built to 3 ft. freeboard .
Norfolk proposes it will achieve 20 of these between 2014-2017.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

There were no new houses built in at 3 feet freeboard in this reporting period

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of new structures built to 3 ft.	0	1/20



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number: 06-OV-LTC-NFIP-01
Activity Title: OV-LTC %Decrease NFIP CRS Score NDR - Resilienc OV

Activity Category:
 NDR - Resilience Value
Project Number:
 06-OV
Projected Start Date:
 10/28/2015
Benefit Type:
 ()
National Objective:
 NA

Activity Status:
 Under Way
Project Title:
 Outcome Values
Projected End Date:
 01/17/2017
Completed Activity Actual End Date:

Responsible Organization:
 Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-05 titled "NFIP Community Rating System."
 This Outcome Value is in the Resiliency category reporting on the % decrease in NFIP CRS score.
 This was listed in our spreadsheet given to us by HUD as both a Economic and Resiliency Value, however could only locate the metric under the Resiliency Value (see attachment).
 Norfolk proposes a 20% decrease.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

No change. The new NFIP CRS score won't be released until the summer 2018



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
% decrease in NFIP CRS score	0	11/20

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	06-OV-LTC-RF/SF-01
Activity Title:	OV-LTC Recurrent Flooding/Stor NDR - Resilience OV

Activity Category:
NDR - Resilience Value

Project Number:
06-OV

Projected Start Date:
01/01/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Outcome Values

Projected End Date:
01/17/2017

Completed Activity Actual End Date:

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-03 titled "Recurrent Flooding/Stormwater Fund."
This Outcome Value is in the Resiliency category reporting on the, "# of storm water projects implemented."

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

There were no new storm water projects implemented in this reporting period.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of storm water projects	0	0/10



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	06-OV-LTC-RS-01
Activity Title:	OV-LTC Resiliency Strategy NDR - Resilien OV

Activity Category:
NDR - Resilience Value

Project Number:
06-OV

Projected Start Date:
10/28/2015

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Outcome Values

Projected End Date:
01/17/2017

Completed Activity Actual End Date:
10/28/2015

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-04 titled "Resiliency Strategy."
 This Outcome Value is in the Resiliency category reporting on the, "#of resiliency strategies released."
 This was listed in our spreadsheet given to us by HUD as an Economic, Environmental, Resiliency, and Social Value. Norfolk proposes 1 strategy for each Outcome Value. (see attachment for the HUD developed and approved Metrics).

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed. The City of Norfolk's Resiliency Strategy was released on October, 28, 2015.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of resiliency strategies released	0	1/1



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	06-OV-LTC-ZOR-01
Activity Title:	OV-LTC Zoning Ordinance Revisi NDR - Resilience OV

Activity Category:
NDR - Resilience Value

Project Number:
06-OV

Projected Start Date:
09/09/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Outcome Values

Projected End Date:
01/17/2017

Completed Activity Actual End Date:
01/23/2018

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the LTC Project # 04-LTC-02 titled "Zoning Ordinance Revision."
This Outcome Value is in the Resiliency category reporting on the, "# of revised zoning codes incorporating resiliency adopted."

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

This metric was completed in January 2018. Norfolk City Council passed the new zoning ordinance that inclusive of resilience provisions on January 23, 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of revised zoning codes	1	1/1



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	06-OV-OCW-01
Activity Title:	OV-OCW NDR - Economic OV

Activity Category:

NDR - Economic Value

Project Number:

06-OV

Projected Start Date:

01/17/2017

Benefit Type:

()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Outcome Values

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the NDR Project # 02-NDR titled "Ohio Creek Watershed."

These Outcome Values are in the Economic category reporting on the, "% increase in median property value of homes in project area."

The Baseline is \$128,000.00

Norfolks current goal is to maintain the median property value at the current levels and prevent it from declining. The median property value of homes in the project area has decreased by approximately 2-3% since 2013. The ultimate long-term goal is to increase the median property value but that is unlikely to happen until after the completion of the project.

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

The changes on the median property value of homes are expected to be realized after the completion of the project.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
% increase in median property	0	0/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	06-OV-OCW-02
Activity Title:	OV-OCW NDR - Environmental OV

Activity Category:
NDR - Environmental Value

Activity Status:
Under Way

Project Number:
06-OV

Project Title:
Outcome Values

Projected Start Date:
01/17/2017

Projected End Date:
09/30/2022

Benefit Type:
()

Completed Activity Actual End Date:

National Objective:
Low/Mod

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the NDR Project # 02-NDR titled "Ohio Creek Watershed."
 These Outcome Values are in the Environmental category reporting on the, "# of acres of parks created,# of acres of rain gardens created,# of linear feet of shoreline restored, # of linear feet of trails constructed, # of trees planted in project area, and % reduction in TMDL pollutant loads."
 Baseline:
 # of trees planted in project area - 1463
 % reduction in TMDL pollutant loads - Nitrogen Pollutant Load- 6,885 lbs/yr, Required Reduction- 557 lbs/yr; Phosphorous

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Review and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office. The benefits won't be realized until after the completion of the project.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of linear feet of trails	0	0/1000
# of acres of parks created	0	0/5
# of acres of rain gardens created	0	0/1
# of linear feet of shoreline	0	0/2200
# of trees planted in project area	0	0/200
% reduction in TMDL pollutant	0	0/20

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Grantee Activity Number:	06-OV-OCW-03
Activity Title:	OV-OCW NDR - Resilience OV

Activity Category:
NDR - Resilience Value

Activity Status:
Under Way

Project Number:
06-OV

Project Title:
Outcome Values

Projected Start Date:
01/17/2017

Projected End Date:
09/30/2022

Benefit Type:
()

Completed Activity Actual End Date:

National Objective:
Low/Mod

Responsible Organization:
Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the NDR Project # 02-NDR titled "Ohio Creek Watershed."
 These Outcome Values are in the Resiliency category reporting on the, "# of linear miles no longer experience flooding, # of reduced hours streets are flooded, and \$ estimated value of flood loss avoided."
 # of linear miles no longer experience flooding - The best estimate of the projected outcome - the coastal storm surge modeling that will be conducted during the design/engineering phase will establish the baseline and a more accurate projected outcome.
 # of reduced hours streets are flooded - The best estimate of the projected outcome. Coastal storm surge modeling that we will conduct during the design phase will help us establish the baseline and a more accurate projected outcome.
 \$ estimated value of flood loss avoided - This is an estimated annual benefit based on modeling of coastal storm surge with 2.5 feet of sea level rise. Coastal storm surge modeling that we will conduct during the design phase will help us establish the baseline and a more accurate projected outcome. The Baseline for this outcome is 0

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Review and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office. The benefits won't



be realized until after the completion of the project.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of linear miles no longer	0	0/2
# of reduced hours streets are	0	0/5
\$ estimated value of flood loss	0	0/327623

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	06-OV-OCW-04
Activity Title:	OV-OCW NDR - Social OV

Activity Category:

NDR - Social Value

Project Number:

06-OV

Projected Start Date:

01/17/2017

Benefit Type:

()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Outcome Values

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Norfolk

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Norfolk	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the NDR Project # 02-NDR titled "Ohio Creek Watershed." These Outcome Values are in the Social category reporting on the, "# of small water retention devices/systems installed, and % increase in "Walk Score."

Baseline:

of small water retention devices/systems installed - 0

% increase in "Walk Score" - 17

Location Description:

The location consists of the entire area within the full legal boundaries of the City of Norfolk.

Activity Progress Narrative:

Work on this activity will begin once all Environmental Review and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office. The benefits won't be realized until after the completion of the project.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of small water retention	0	0/10
% increase in "Walk Score"	0	0/20

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	06-OV-RISE-01
Activity Title:	OV-RISE NDR - Economic OV

Activity Category:

NDR - Economic Value

Project Number:

06-OV

Projected Start Date:

01/17/2017

Benefit Type:

()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Outcome Values

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.

Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Outcome Value tied to the NDR Project # 03-NDR titled "Coastal resiliency Laboratory & Accelerator Center." These Outcome Values are in the Economic category reporting on the, "# of businesses formed as a result of the Coastal Resilience Incubator and Laboratory, # of businesses participating in the Coastal Resilience Incubator and Laboratory, # of projects brokered by the Coastal Resilience Incubator and Laboratory, and # of resiliency products and technologies with commercial applications developed."

Location Description:

The project location has a regional focus which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield and the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.

Activity Progress Narrative:

No activity at this time.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of businesses formed as a result	0	0/15
# of businesses participating in the	0	0/10
# of projects brokered by the	0	0/20
# of resiliency products and	0	0/15

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Project # / Title: 07-NDR-PI Account / Coastal Resilience Laboratory &

Grantee Activity Number:	07-NDR-01 PI
Activity Title:	RISE Program Income

Activity Category:

Econ. development or recovery activity that creates/retains

Project Number:

07-NDR-PI Account

Projected Start Date:

01/17/2017

Benefit Type:

Direct (Person)

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Coastal Resilience Laboratory & Accelerator Center PI

Projected End Date:

09/30/2022

Completed Activity Actual End Date:

Responsible Organization:

Coastal Community Resilience, Inc.



Overall	Jan 1 thru Mar 31, 2018	To Date
Total Projected Budget from All Sources	N/A	\$20,000.00
Total Budget	\$0.00	\$20,000.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Coastal Community Resilience, Inc.	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

An account set up for earned program income that is generated from the Innovation Loan Pool. Program income will be recycled for additional loans to resiliency related businesses.

Location Description:

This is a regional activity which includes the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, the Town of Smithfield, the Counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York.

Activity Progress Narrative:

No activity at this time.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of buildings (non-residential)	0	0/0
# of Businesses	0	0/1

Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Permanent Jobs Created	0	0	0	0/1	0/1	0/2	0
# of Permanent Jobs Retained	0	0	0	0/0	0/0	0/0	0

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod
# of Persons	0	0	0	0/1	0/1	0/2	0

Activity Locations

No Activity Locations found.



Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

